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Docket No.: 2003.807 US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Patent Application of:
Adam Adam-Worrall

Application No.: 10/583,013✓

Confirmation No.: 6111

Filed: June 15, 2006

Art Unit: 2622

For: TRICYCLIC 1-[(INDOL-3-YL)
CARBONYL]PIPERAZINE DERIVATIVES AS
CANNABINOID CB1 RECEPTOR AGONISTS

Examiner: Not Yet Assigned

TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

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Commissioner for Patents, P.O. Box 1450,
Alexandria, VA 22313-1450

Dear Sir:

on March 29, 2007

☒ Transmitted herewith find the document(s) related to this application.

1. TRANSMITTAL LETTER IN DUPLICATE;
2. SUPPLEMENTAL IDS (4 pages);
3. PTO SB/08 FORM (1 page);
4. COPIES OF REFERENCES CITED (10);
5. CERTIFICATE OF MAILING; and
6. POSTCARD

Lynn Brush
Lynn Brush

No fees are believed due for this filing. Please charge any fees which may be due
(including filing fees under 37 CFR 1.16 and processing fees under 37 CFR 1.17) to Deposit Account
No. 01-1350. If an extension of time is required but has not been requested above, Applicant hereby
petitions for an extension of time sufficient for the attached document(s) to be timely. A duplicate
copy of this sheet is enclosed.

Dated: March 29, 2007

Respectfully submitted,

By Susan Hess
Susan Hess

Akzo Nobel Inc.
Intellectual Property Department
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(973) 325-4542

Registration No.: 37,3501
Attorney For Applicant(s)



Docket No.: 2003.807 US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Julia Adam-Worrall

Application No.: 10/583,013

Confirmation No.: 6111

Filed: June 15, 2006

Art Unit: 2622

For: TRICYCLIC 1-[(INDOL-3-YL)
CARBONYL]PIPERAZINE DERIVATIVES AS
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Examiner: Not Yet Assigned

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Alexandria, VA 22313-1450

Dear Sir:

on March 29, 2007

Lynn Brush
Lynn Brush

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed:
(Check one of the boxes A-D)

- ☐ A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above identified national application
- ☒ B. before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.
- ☐ C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary statement in box "i" below or paid the necessary fee in box "ii" below.

(check one of the boxes "i" and "ii" below:)

- ☐ i. Counsel states that, upon information and belief, each item of information listed herein was (check one of boxes (a) or (b))
- ☐ (a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- ☐ (b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- ☐ ii. A check for the fee set forth in 1. 17(p), presently believed to be \$180, is enclosed.
- ☐ D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant petitions under 37 C.F.R. 1.97(d) for the consideration of this IDS. Under 37 CFR 1.17(i) a check in the amount of \$180.00 is enclosed. Counsel certifies that, upon information and belief, each item of information listed herein was

(check one of the boxes "a" and "b" below:)

- ☐ (a) first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- ☐ (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO/SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A, B and/or C and fill in blanks, if appropriate.)

- ☒ A. Pursuant to the 37 C.F.R. § 1.98(a)(2)(ii), a copy/copies of the U.S. Patent(s) and/or U.S. Patent Application Publication(s) on PTO/SB08 is/are not being submitted.
- ☐ B. Document(s) _____ is (are) deemed substantially cumulative to document(s) _____, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
- ☐ C. Certain documents were previously cited by or submitted to the Office in the following prior applications, which are relied upon under 35 U.S.C. 120:

<<INSERT SERIAL NO. & FILING DATE>>

Applicant identifies these documents by attaching hereto copies of the forms PTO-892, PTO-1449 and/or PTO/SB/08 from the files of the prior application(s) or a fresh PTO/SB/08 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

- ☐ 3. Cite No(s). _____ are not in the English language.
In accordance with 1.98(c), Applicant states:

- ☐ An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.
- ☐ The requirement for a concise explanation of the relevance of any foreign language document is satisfied by the attached search report; citation of the documents cited in the search report shall not be construed as an admission that they are or are considered to be, material to patentability of the subject matter claimed herein (See MPEP §609).
- ☐ A concise explanation of the relevance of document(s) _____ is set forth as follows: [Insert concise explanation of relevance]
- ☐ A concise explanation of the relevance of document(s) _____ can be found on page(s) _____ of the specification.
- ☐ A concise explanation of document(s) _____ can be found on the attached sheet.

- ☒ 4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 in the preamble to the final rules; 1135 OG 13 at 20).
- ☐ 5. Other information being provided for the examiner's consideration follows:

6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless other-wise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

Early and favorable consideration is earnestly solicited.

The Commissioner is authorized to charge any deficiency or credit any excess in this fee to Deposit Account No. 01.1350.

Dated: March 29, 2007

Respectfully submitted,

By Susan Hess
Susan Hess

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PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known			
		Application Number	10/583,013		
		Filing Date	June 15, 2006		
		First Named Inventor	Julia Adam-Worrall		
		Art Unit	2622		
		Examiner Name	6111		
Sheet	1	of	1	Attorney Docket Number	2003.807 US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/E.B./		4,939,138			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/E.B./		EP 0 393 766				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/E.B./		Jung, Michel E., et al., "Organic Chemistry of L-Trypsine," <i>J. Org. Chem.</i> , 1985, 50, pp. 4909-4913.	
		Howlett, A. C. et al., "International Union of Pharmacology. XXVII. Classification of Cannabinoid Receptors," <i>Pharmacological Reviews</i> , Rev., Vol. 54, No. 2 (2002) pp. 161-202.	
		Iversen, L. et al., "Cannabinoids: a real prospect for pain relief?," <i>Current Opinion in Pharmacology</i> , Vol. 2 (2002) pp. 50-55.	
		Eissenstat, M. A. et al., "Aminoalkylindoles: Structure-Activity Relationships of Novel Cannabinoid Mimetics," <i>J. Med. Chem.</i> , Vol. 38 (1995), pp. 3094-3105.	
		Robinson, B., "Recent Studies on the Fischer Indole Synthesis," <i>Chem. Rev.</i> , Vol. 69 (1963) pp. 227-250.	
		van Wijngaarden, I. et al., "Development of High-Affinity 5-HT ₃ Receptor Antagonists. Structure-Affinity Relationships of Novel 1,7-Annelated Indole Derivatives," <i>J. Med. Chem.</i> , Vol. 36 (1993) pp. 3693-3699.	
		Hwu, J. R. et al., "Novel Methods for the Synthesis of Functionalized Indoles from Arylhydroxylamines and Activated Acetylenes," <i>J. Org. Chem.</i> , Vol. 59 (1994) pp. 1577-1582.	
		Stratowa, C. et al., "Use of a luciferase reporter system for characterizing G-protein-linked receptors," <i>Current Opinion in Biotechnology</i> , Vol. 6 (1995) pp. 574-581.	
		Dinsmore, Christopher J., et al., "Recent Advances in the Synthesis of Diketopiperazines," <i>Tetrahedron</i> 58 (2002), pp. 3297-3312.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Emily Bernhardt/	Date Considered	01/07/2008
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